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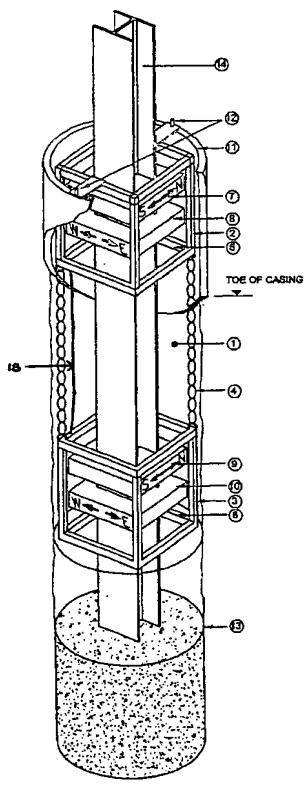
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(54) Title: PLACING ELEMENTS IN PILES



(57) Abstract: The present application relates to an apparatus and method for placing an element (14), such as a steel column or concrete section, into a pile shaft (1) during top-down construction techniques. The apparatus is provided with an upper and lower positioning means (2, 3) which allow the plan position of the element at upper and lower levels respectively to be adjusted.

WO 2004/081297 A1



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *with amended claims*

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— *with international search report*

# INTERNATIONAL SEARCH REPORT

national Application No

T/GB2004/000951

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E02D27/42 E02D13/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 E02D G01C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 549 168 A (TOWNSEND ELVIN E) 11 August 1925 (1925-08-11) page 1, line 13 - line 17; figure 1 -----	1
A	EP 0 302 707 A (CEMENTATION PILING & FOUND) 8 February 1989 (1989-02-08) cited in the application abstract; figure 7 -----	1,9
A	PATENT ABSTRACTS OF JAPAN vol. 0093, no. 03 (M-434), 30 November 1985 (1985-11-30) -& JP 60 141924 A (MITSUI KENSETSU KK), 27 July 1985 (1985-07-27) abstract; figure 1 -----	1,9

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Patent family members are listed in annex.

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